Filename: PMP30359RevB - BoM.xls
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PMP30359 REV B Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1, C101	2	1000pF	GRM188R71H102KA01D	MuRata	CAP, CERM, 1000 pF, 50 V,+/- 10%, X7R, 0603	0603
2	C2	1	220uF	10SVPE220M	Panasonic	CAP, Aluminum Polymer, 220 µF, 10 V,+/- 20%, 0.02 ohm, F61 SMD	F61
3	C3, C6, C7	3	22uF	GRM32ER71E226KE15L	MuRata	CAP, CERM, 22 µF, 25 V,+/- 10%, X7R, 1210	1210
4	C4, C5, C9	3	0.1uF	GRM188R71H104KA93D	MuRata	CAP, CERM, 0.1 µF, 50 V,+/- 10%, X7R, 0603	0603
5	C8	1	330uF	EEHZC1E331P	Panasonic	CAP, Polymer Hybrid, 330 µF, 25 V,+/- 20%, 20 ohm, 10x10 SMD	10x10
6	C10	1	220pF	GRM188R71H221KA01D	MuRata	CAP, CERM, 220 pF, 50 V,+/- 10%, X7R, 0603	0603
7	C11	1	6800pF	GRM188R71H682KA01D	MuRata	CAP, CERM, 6800 pF, 50 V,+/- 10%, X7R, 0603	0603
8	C12	1	4.7uF	GRM31CR71C475KA01L	MuRata	CAP, CERM, 4.7 µF, 16 V,+/- 10%, X7R, 1206	1206
9	C13, C15	2	100pF	GRM1885C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V,+/- 5%, C0G/NP0, 0603	0603
10	C14, C17	2	0.22uF	GRM188R71E224KA88D	MuRata	CAP, CERM, 0.22 µF, 25 V,+/- 10%, X7R, 0603	0603
11	C16	1	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1 µF, 25 V,+/- 10%, X7R, 0603	0603
12	D1, D2	2	30V	MBR130T1G	ON Semiconductor	Diode, Schottky, 30 V, 1 A, SOD-123	SOD-123
13	J1, J2	2		ED120/2DS	On-Shore Technology	Terminal Block, 5.08 mm, 2x1, Brass, TH	2x1 5.08 mm Terminal Block
14	J3	1		61300211121	Wurth Elektronik	Header, 2.54 mm, 2x1, Gold, TH	Header, 2.54mm, 2x1, TH
15	L1	1	2.2uH	XAL1010-222MEB	Coilcraft	Inductor, Shielded, Composite, 2.2 µH, 32 A, 0.00255 ohm, SMD	Inductor, 11.3x10x10mm
16	L2	1	100nH	XEL4020-101MEB	Coilcraft	Inductor, Shielded, Composite, 100 nH, 19.9 A, 0.002 ohm, AEC-Q200 Grade 1, SMD	
17	Q1, Q2	2	30V	SQJ410EP-T1_GE3	Vishay-Siliconix	MOSFET, N-CH, 30 V, 32 A, PowerPAK_SO-8L	PowerPAK_SO-8L
18	R1, R101	2	2.2	CRCW20102R20JNEF	Vishay-Dale	RES, 2.2, 5%, 0.75 W, AEC-Q200 Grade 0, 2010	2010
19	R2	1	0.47	MCR25JZHFLR470	Rohm	RES, 0.47, 1%, 0.5 W, 1210	1210
20	R3	1	0.005	WSL20105L000FEA	Vishay-Dale	RES, 0.005, 1%, 0.5 W, 2010	2010
21	R4, R5	2	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100 ohm, 1%, 0.1W, 0603	0603
22	R6, R7	2	0	ERJ-3GEY0R00V	Panasonic	RES, 0 ohm, 5%, 0.1W, 0603	0603
23	R8, R11, R13, R18, R22	5	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
24	R9	1	30.1k	CRCW060330K1FKEA	Vishay-Dale	RES, 30.1 k, 1%, 0.1 W, 0603	0603
25	R10	1	3.32	CRCW06033R32FKEA	Vishay-Dale	RES, 3.32, 1%, 0.1 W, 0603	0603
26	R12, R15	2	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
27	R14	1	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, 0603	0603
28	R16	1	20.0k	CRCW060320K0FKEA	Vishay-Dale	RES, 20.0 k, 1%, 0.1 W, 0603	0603
29	R17	1	17.4k	CRCW060317K4FKEA	Vishay-Dale	RES, 17.4 k, 1%, 0.1 W, 0603	0603
30	R19	1	10.7k	CRCW060310K7FKEA	Vishay-Dale	RES, 10.7 k, 1%, 0.1 W, 0603	0603
31	R20	1	29.4k	CRCW060329K4FKEA	Vishay-Dale	RES, 29.4 k, 1%, 0.1 W, 0603	0603
32	R21	1	25.5k	CRCW060325K5FKEA	Vishay-Dale	RES, 25.5 k, 1%, 0.1 W, 0603	0603
33	TP1, TP2	2		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
34	TP3, TP4	2		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
35	U1	1		LM5122QMHX/NOPB	Texas Instruments	Automotive Grade, 3-65V Wide Vin, Current Mode Synchronous Boost Controller with Multiphase Capabili, PWP0020A (TSSOP-20)	PWP0020A

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